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FIG. 2

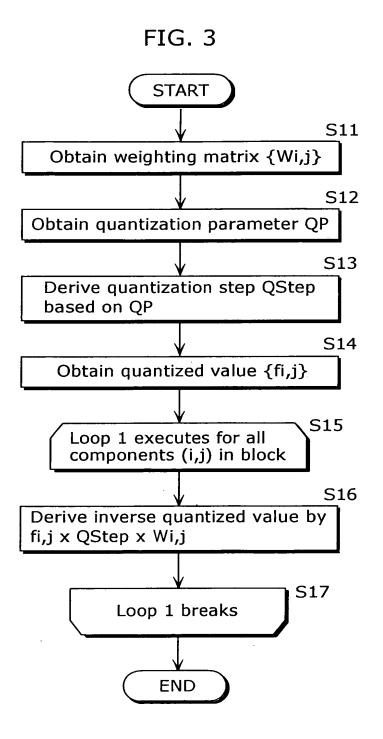
Low frequency

Horizontal high frequency

8	16	19	22	26	27	29	34
16	16	22	24	27	29	34	37
19	22	26	27	29	34	34	38
22	22	24	27	29	34	37	40
22	26	27	29	32	35	40	48
26	27	29	32	35	40	48	58
26	27	29	34	38	46	56	69
27	29	35	38	46	56	69	83

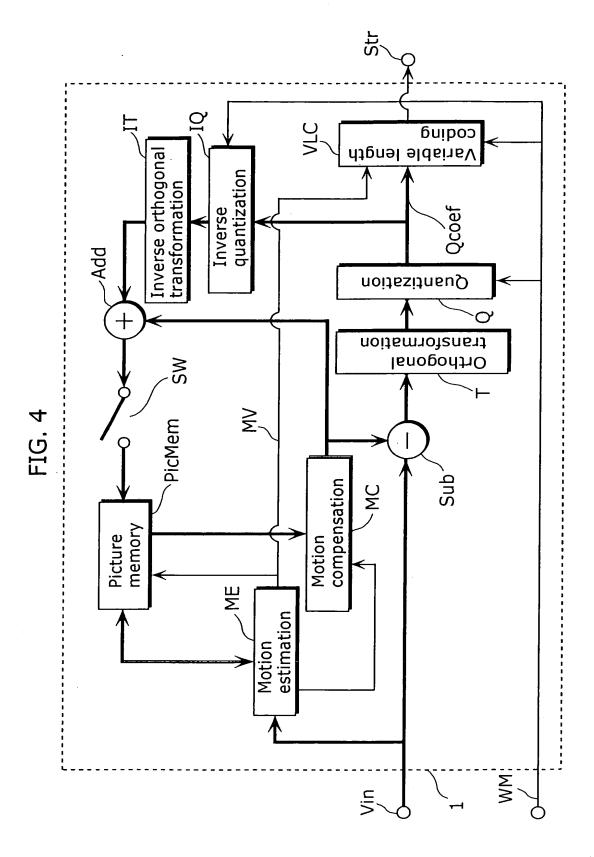
Vertical high frequency

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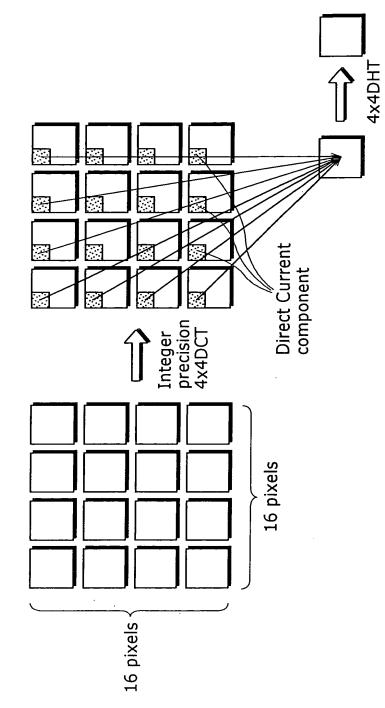


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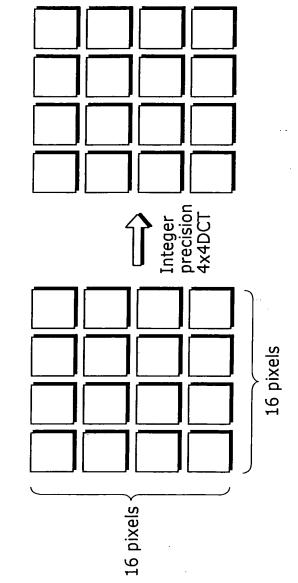
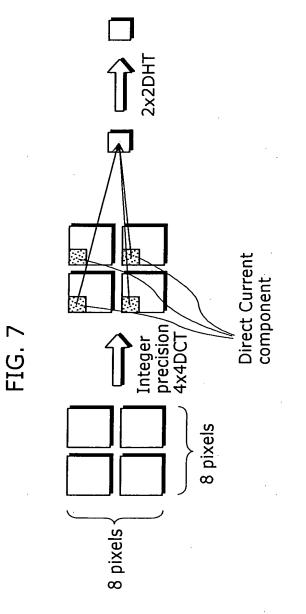


FIG. 6

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FIG. 8

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H0=(h0+h1+h2+h3)/2	
H1=(h0+h1-h2-h3)/2	
H2=(h0-h1-h2+h3)/2	
H3=(h0-h1+h2-h3)/2	· · · · · · · · · · · · · · · · · · ·

FIG. 9A

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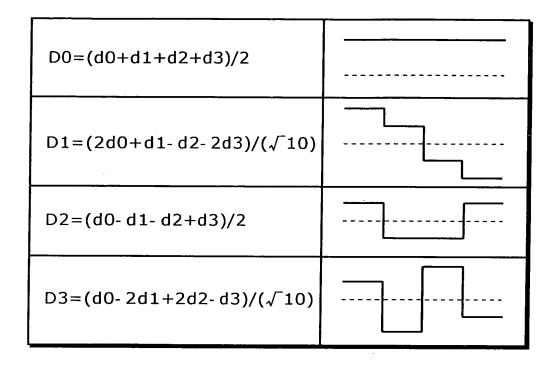
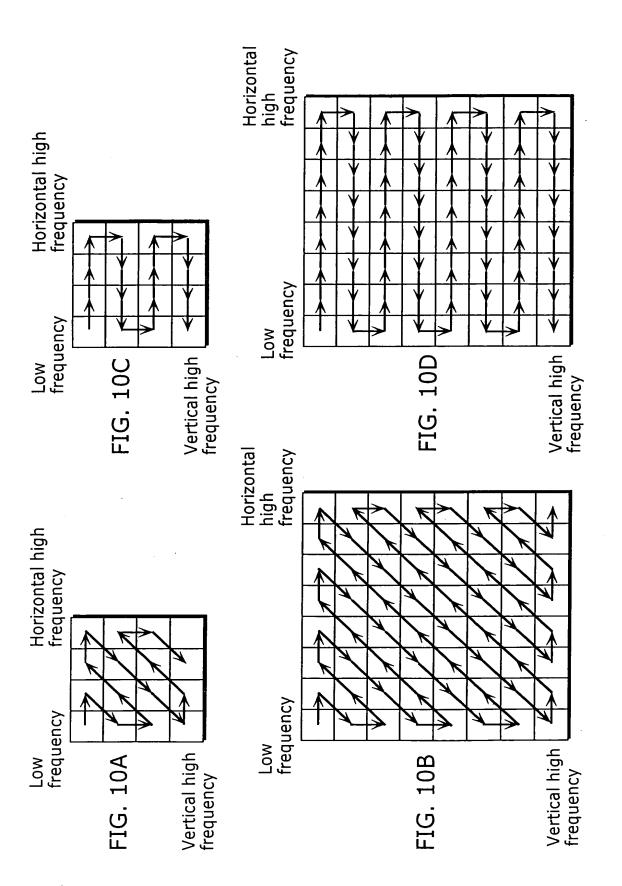


FIG. 9B

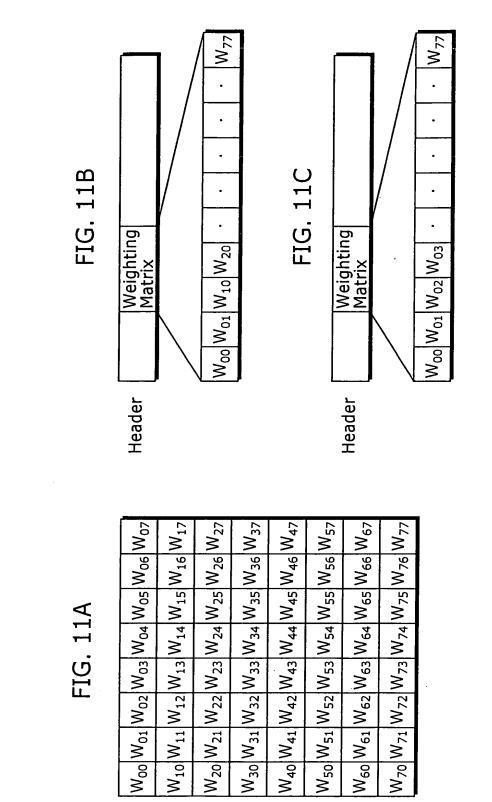
d0=(D0+D1'+D2+D3'/2)/2 d1=(D0+D1'/2-D2-D3')2 d2=(D0+D1'/2-D2+D3')2 d3=(D0-D1'+D2-D3'/2)/2 $D1'=D1\sqrt{8}/\sqrt{5}$ $D3'=D3\sqrt{8}/\sqrt{5}$



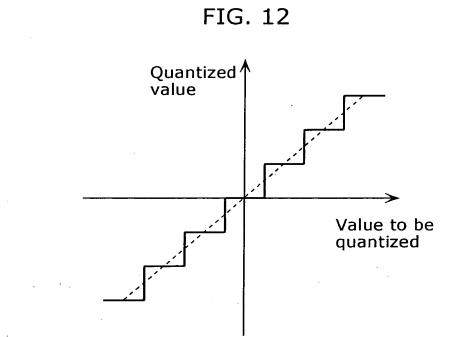
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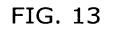
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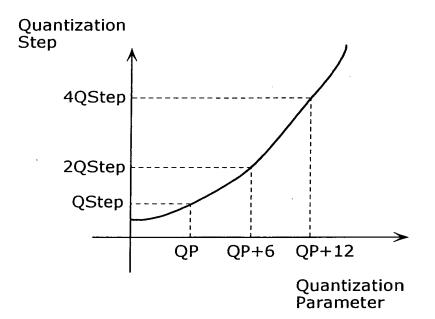
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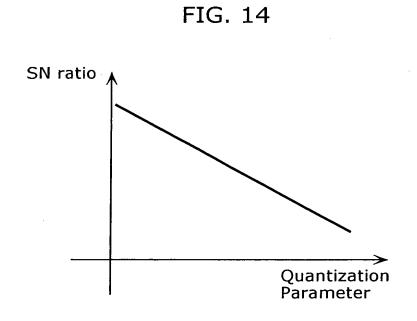


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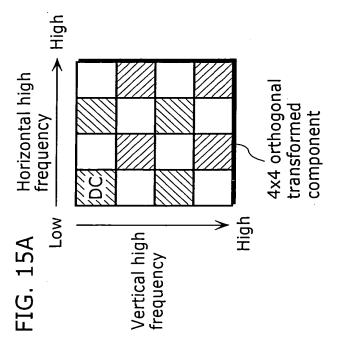
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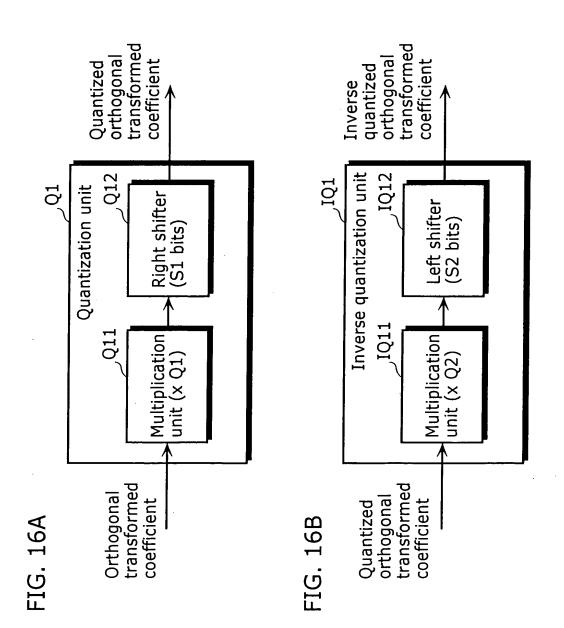


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٢	13	14	16	18	20	23
β	16	18	20	23	25	29
α	10	11	13	14	16	18
QP%6	0	1	. 2	с	4	5

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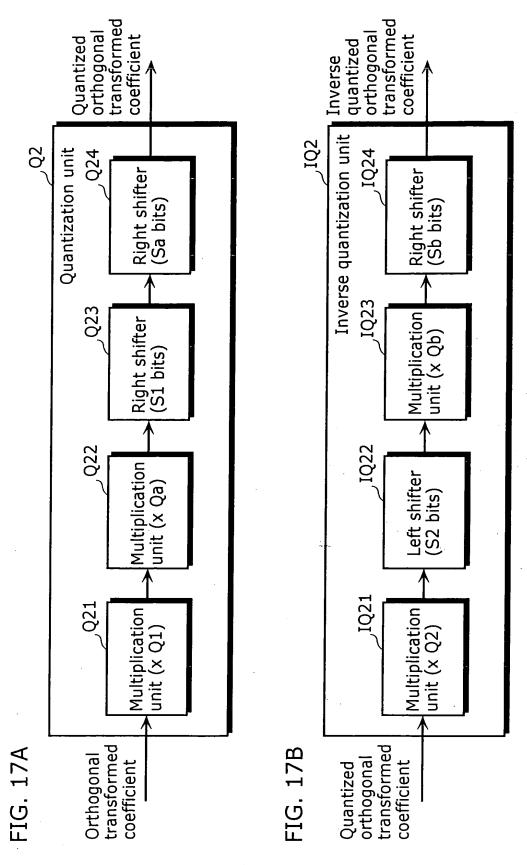
Multiply quantization value by value obtained by multiplying value of (QP%6) in column α by 2 ^{QP/6}
Multiply quantization value by value obtained by multiplying value of (QP%6) in column β by $2^{QP/6}$
Multiply quantization value by value obtained by multiplying value of (QP%6) in column γ by 2 ^{QP/6}



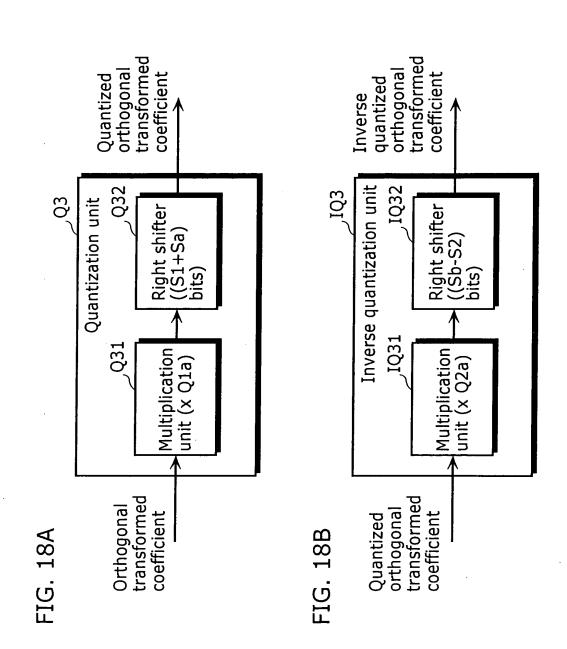
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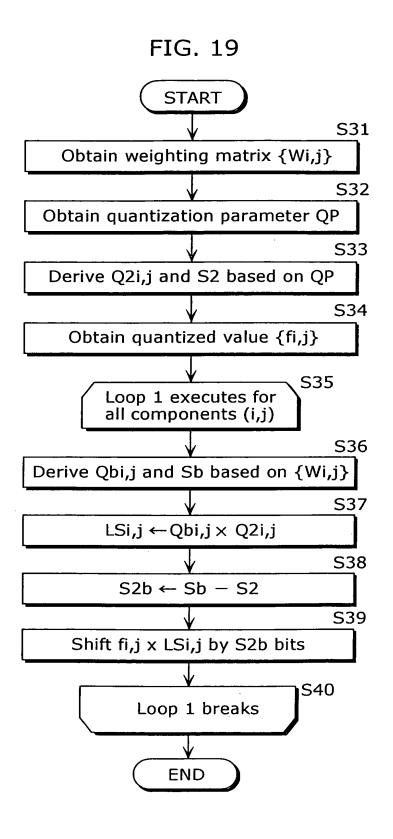


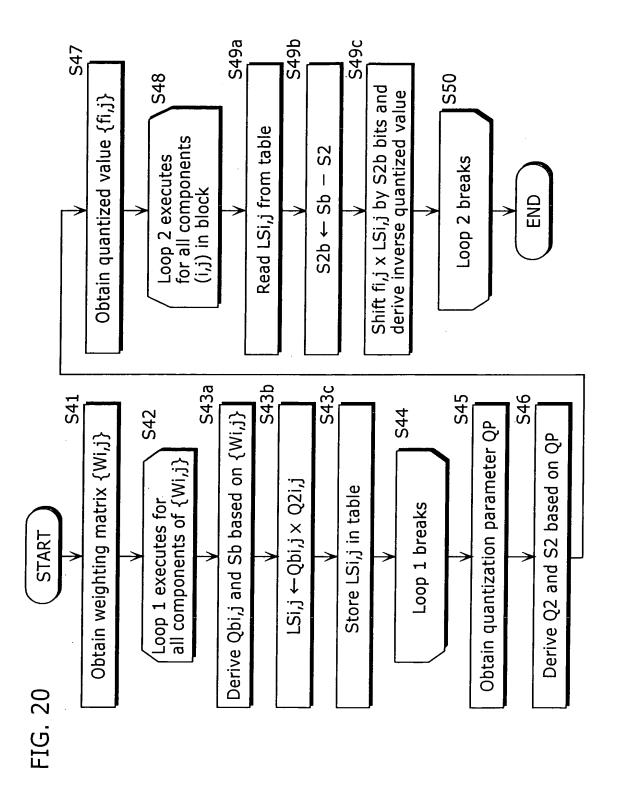
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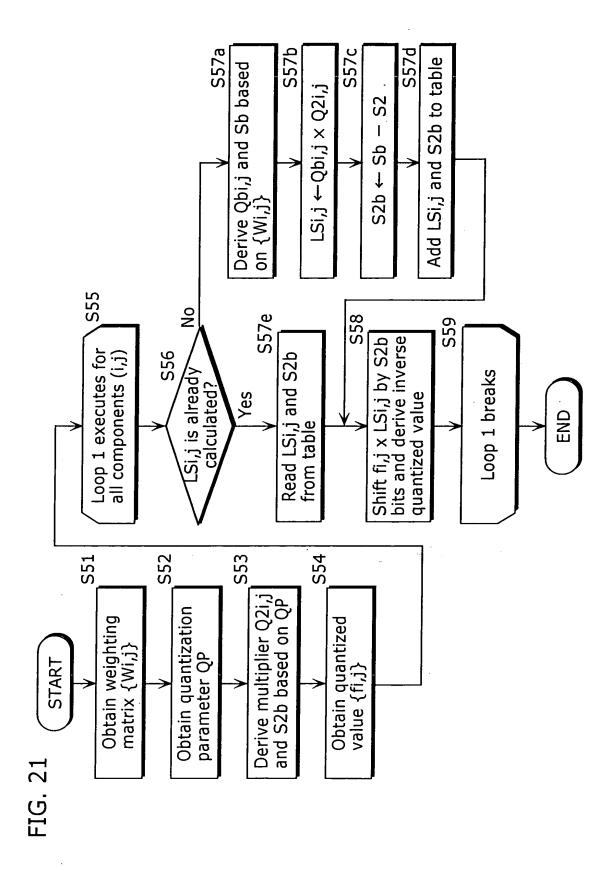
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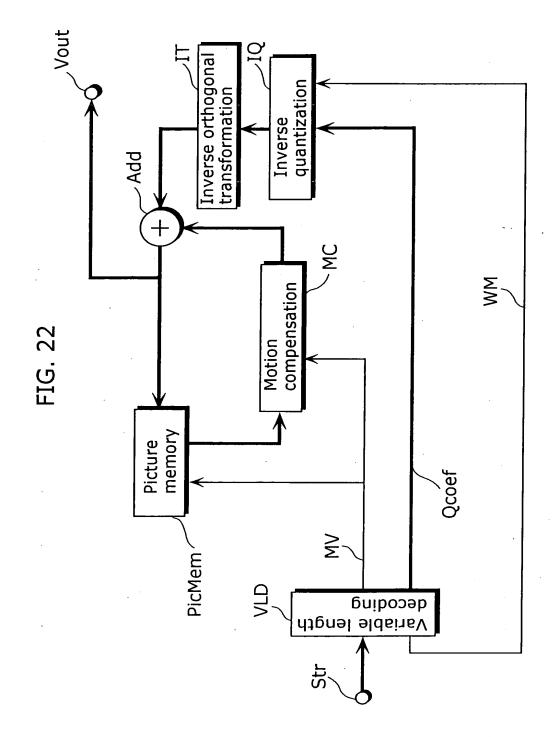


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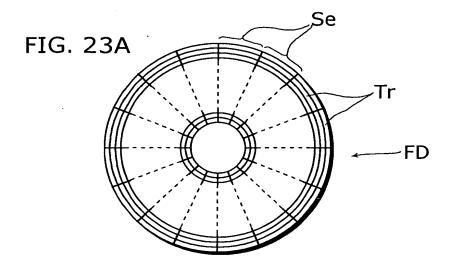
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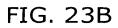
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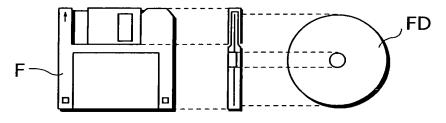
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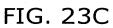
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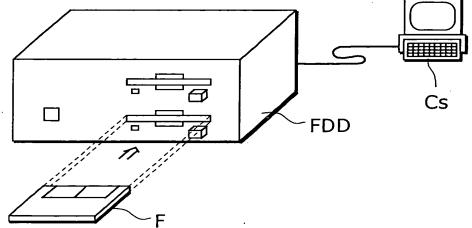


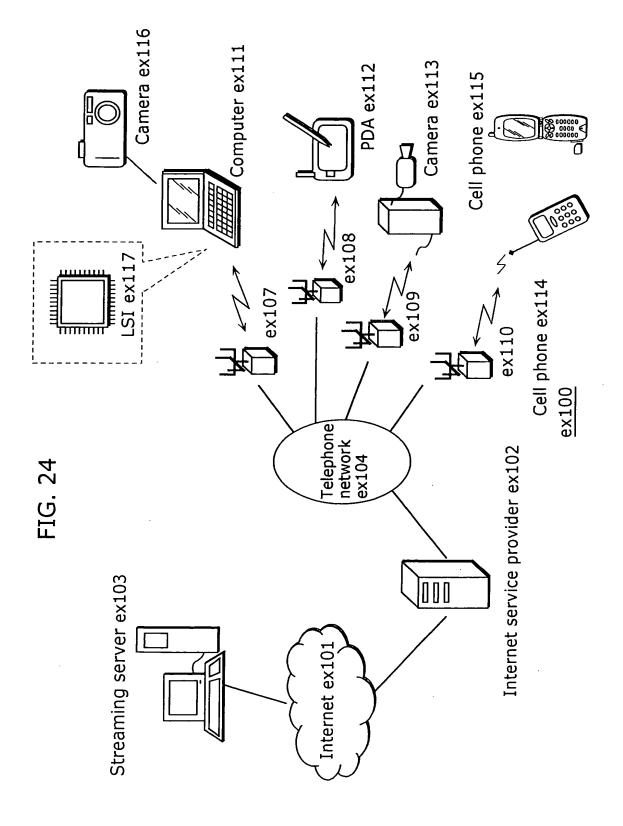


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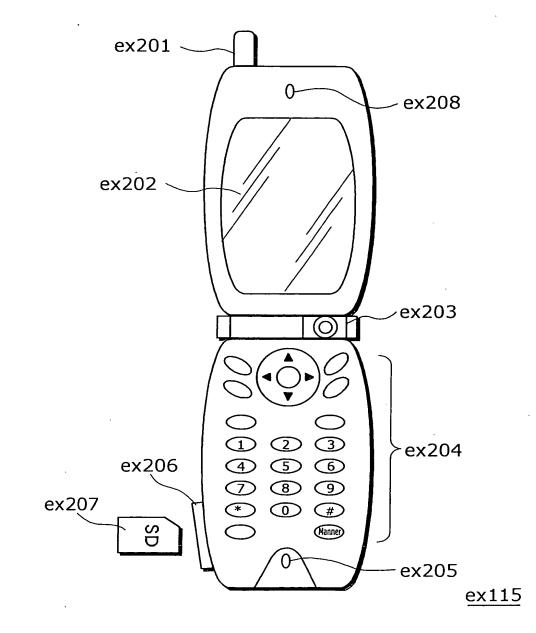
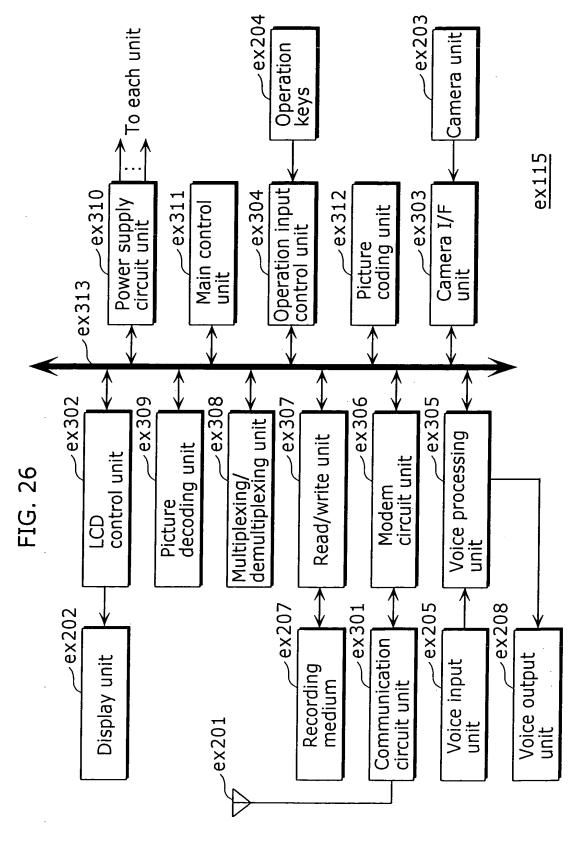


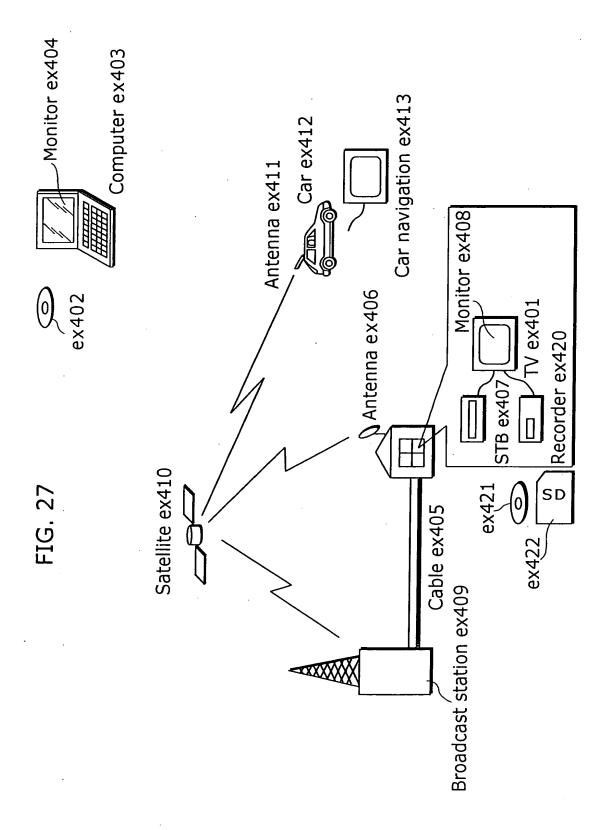
FIG. 25

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ĺ	16,16,19,22,26,27.29,34
	16,16,22,24,27,29,34,37
I	19,22,26,27,29.34,34,38
	21,22,26,27,29,34,37,40
ļ	22,26,27,29,32,35,40,48
I	26.27,29,32,35,40,48,58
	26,27,29,34,38,46,56,69
I	27,29,35,38,46,56,69.83

Fig.29

	2506		[15]
	2211		17
W=	1979	V=	19
vv	1709		22
	1566		24
	[1392]		27]

Fig.30

Quantization matrix Qq (corresponding to Q1a at the encoder):

506624, 506624, 426631, 368454, 311769, 300222, 279517, 238411
506624, 506624, 368454, 337749, 300222, 279517, 238411, 219081
426631, 368454, 311769, 300222, 279517, 238411, 238411, 213315
368454, 368454, 311769, 300222, 279517, 238411, 219081, 202650
368454, 311769, 300222, 279517, 253312, 731600, 202650, 168875
311769, 300222. 279517, 253312, 231600. 202650, 168875, 139758
311769, 300222, 279517, 238411, 213315, 176217, 144750, 117478
300222, 279517, 231600, 213315, 176217, 144750, 117478, 97662

Fig.31

De-quantization matrix Qd (corresponding to Q2b at both the encoder and decoder):

4864, 4864,	5776,	6688,	7904,	8208,	8816,	10336
4864, 4864,	6688,	7296,	8208,	8816,	10336,	11248
5776, 6688,	7904,	8208,	8816,	10336,	10336,	11552
6688, 6688,	7904,	8208,	8816,	10336,	11248,	12160
6688, 7904,	8208,	8816,	9728,	10640,	12160,	14592
7904, 8208,	8816,	9728,	10640,	12160,	14592 , 1	17632
7904, 8208,	8816,	10336,	11552,	13984,	17024,	20976
8208, 8816,	10640,	11552,	13984,	17024,	20976, 2	25232

16,19,26,29	
19,26,29,34	
22,27,32,40	
26,29,38,56	

Fig.32

	[13107	5243	8066 -		10	16	13]
	11916	4660	7490		11	18	14
W=	10082	4194	6554		13	20	16
vv-	9362	3647	5825	V=	14	23	16 18
	8192	3355	5243			25	
	7282	2893	4559		18	29	23

Fig.34

Quantization matrix Qq

(corresponding to Q1a at the encoder):

2580992,	1412904,	1588303, 925696
1412904,	660716,	925696, 505254
1877085,	994266,	1290496, 671130
1032507.	592366,	706452, 306761

Fig.35

De-quantization matrix Qd

(corresponding to Q2b at both the encoder and decoder):

3328.	4864	5408	7424
••==,		0100,	/ 12
4864	8320,	7424	10880
700 7 ,	0020,	/ 727,	10000
1576	6912,	6656	10240
4370,	0312,	0000,	10240
6656	0200	0720	17020
0050,	9280,	9120,	1/920

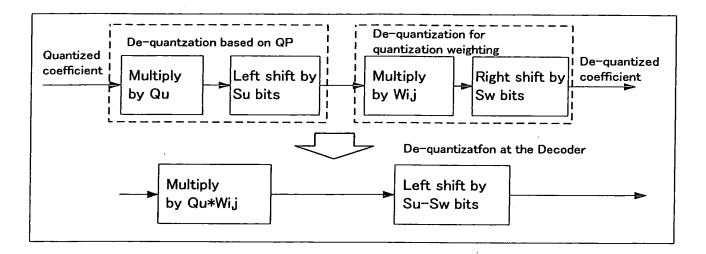
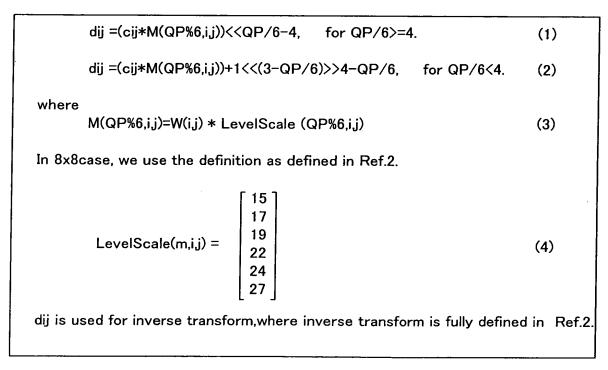


Fig.37

	[16	16	19	22	26	27	29	34-	1
	110	10	00	04	07	00	~ 4	07	1
	19	22	26	27	29	34	34	39	
W=	22	22	26	28	30	35	37	41	
	22	26	27	28	33	40	42	49	
	26	27	30	32	35	40	48	59	
	26	27	31	34	38	46	57	69	
	10 19 22 22 26 26 26 26	29	36	39	45	55	68	78	
	-								

Fig.38



LevelScale(m,i,j) =
$$\begin{cases} Vm0 \text{ for } (i,j) \in \{(0,0),(0,2),(2,0),(2,2)\}, \\ Vm1 \text{ for } (i,j) \in \{(1,1),(1,3),(3,1),(3,3)\}, \\ Vm3 \text{ otherwise}; \end{cases}$$

Fig.40

	[10	16	13
	11	18	14
.,	13	20	16
V=	14	23	18
	16	25	20
	[18	29	23

Fig.41

8	14	20	24	50	50	50	50
14	15	23	26	50	50	50	50
19	22	27	31	50	50	50	50
23 ·	23	28	30	50	50	50	50 [°]
24	28	32	50	50	50	50	50
34	35	50	50	50	50	50	50
40	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50

Fig.42

 2560
 4256
 8000
 7296
 16000
 15200
 20000
 15200

 4256
 4320
 8832
 7488
 15200
 14400
 19200
 14400

 7600
 8448
 13824
 11904
 20000
 19200
 25600
 19200

 6992
 6624
 10752
 8640
 15200
 14400
 19200
 14400

 7680
 8512
 12800
 15200
 16000
 15200
 20000
 15200

 10336
 10080
 19200
 14400
 15200
 14400
 19200
 14400

 16000
 19200
 25600
 19200
 20000
 19200
 25600
 19200

 2560
 4256
 8000
 7296
 16000
 15200
 20000
 15200

Fig.43